

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

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# **NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

Arrow United Industries 450 Riverside Drive Wyalusing, PA 18853

### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

## **DESCRIPTION: Model EAV-81 8" deep Aluminum Louver**

APPROVAL DOCUMENT: Drawing No. 1624, titled "Model EAV-81 Impact Louver System", sheets 1 through 3 of 3, dated 11/12/2008, with revision A1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren. W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

# MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 08-1202.08 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY
APPROVED

Atteros 2012

NOA No. 11-1117.08 Expiration Date: February 4, 2014 Approval Date: January 19, 2012 Page 1

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

Drawing No. 1624, titled "Model EAV-81 Impact Louver System", sheets 1 through 3 of 3, dated 11/12/2008, with revision A1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren W. Schaefer, P.E.

## B. TESTS "Submitted under NOA No. 08-1202.08"

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94 and ASTM E1886/1996 Level E.
  - 3) Cyclic Wind Pressure per FBC, TAS 203-94 and ASTM E1886/1996.

along with marked-up drawings and installation diagram, of their A-820 Aluminum Louver System", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0812-08**, dated 10/14/2008, signed and sealed by Vinu J. Abraham, P.E.

Test report on Wind and Wind-Driven Rain Resistance per TAS 100(A)-95 of their A-820 Louver, prepared by PRI Construction Materials Technologies, LLC, and Report No. 009-02-02, dated 04/28/2008, signed and sealed by Duc T. Nguyen, P.E.

## C. CALCULATIONS "Submitted under NOA No. 08-1202.08"

1. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/24/2008, signed and sealed by Warren W. Schaefer, P.E.

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

- 1. Statement letter of code conformance to 2007 and 2010 FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.
- 2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.

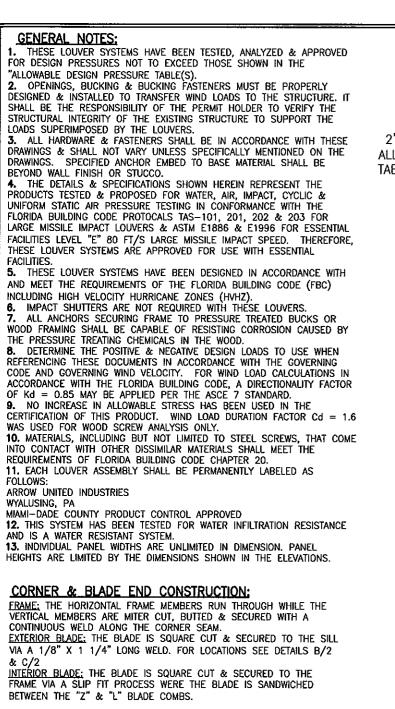
#### "Submitted under NOA No. 08-1202.08"

3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 10/14/2008, signed and sealed by Vinu J. Abraham, P.E.

Carlos M. Utrera, P.E. Product Control Examiner

NOA No. 11-1117.08

Expiration Date: February 4, 2014 Approval Date: January 19, 2012



OPENING TYPE

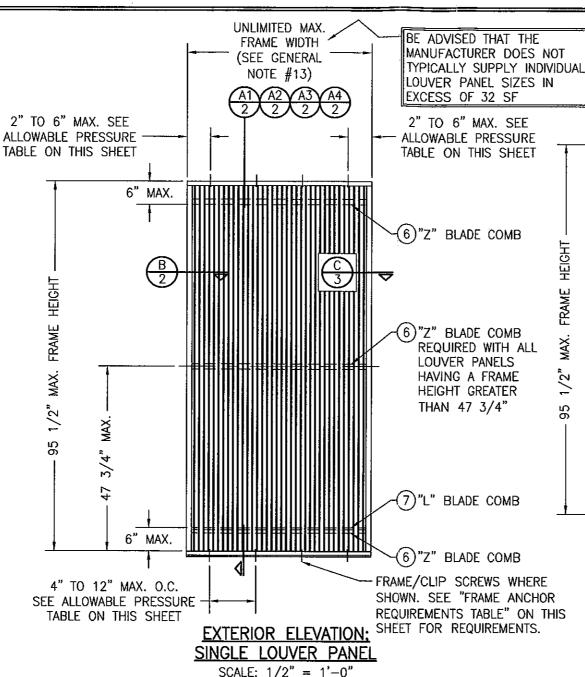
(SUBSTRATE)

MIN. 2X\_ WOOD FRAME OR BUCK

(MIN. GR. 3 & G=0.55)

MIN. 1/8" THK A36 STEEL

3000 PSI CONCRETE



MINIMUM

EDGE DIST

3/4"

1/2"

1/2"

1/2"

2"

[MINIMUM]

**EMBED** 

1 1/4"

FULL

**FULL** 

FULL

1 1/2"

(ALL LOUVER CONDITIONS)

( == 200 == 001.07110110)		
MAX. ANCHOR SPACING	MAX. ANCHOR END DISTANCE	ALLOWABLE PRESSURE
4"	2"	+/-150 PSF
8"	4"	+/-75 PSF
12"	6"	+/-50 PSF

ALLOWABLE DESIGN PRESSURE & ANCHOR SPACING REQUIREMENTS

MAX. ANCHOR SPACING	MAX. ANCHOR END DISTANCE	ALLOWABLE PRESSURE
4"	2"	+/-150 PSF
8"	4"	+/-75 PSF
12"	6"	+/-50 PSF

RIVERSIDE DRIVE USING, PA 18853 70-746-1888 INDUSTRI UNITED ARROW SYSTEM SEE SINGLE UNIT **EXTERIOR ELEVATION: ELEVATION FOR** MULTIPLE LOUVER PANELS FRAME/CLIP LOUVER

UNLIMITED MAX.

FRAME WIDTH

(SEE GENERAL

NOTE #13)

**MULTIPLE UNIT NOTES:** 

UNLIMITED MAX.

FRAME WIDTH

(SEE GENERAL

NOTE #13)

FRAME

MAX.

1/2,

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATION.

SCALE: 1/2" = 1'-0"

2. THERE IS NO LIMIT ON THE NUMBER OF SINGLE LOUVER PANELS THAT MAY BE COMBINED HORIZONTALLY INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED BY THE PANELS.

3. INDIVIDUAL LOUVER PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE LOUVER PANEL ELEVATIONAL PRODUCT REVISED NEFER

as complying with the Florida Building Code
Acceptance No [1-11] 7.08

CENSE TOPOFES \* PROFILE

**ANCHOR** 

REQUIREMENTS AT

HEAD & SILL OF

EACH PANEL

HESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUC SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

ENGINEERING P.A. (CA 6809) IMPACT 8 2.ਵੱਧ ર્ટ કે જે

W.W.S.

ATE: 11/12/08

OT: 1=24

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1624 SHEET NO OF

(1) BOLTS SHALL BE MIN. A307 GALVANIZED OR 304 S.S. (Fv = 10,000 PSI MIN.)

MIN. 16 GA. 33 KSI METAL STUD MIN. NO. 10 GR. 5 SELF TAP/DRILL SCREW

MIN. 1/8" THK 6063-T5 ALUM. MIN. NO. 10 GR. 5 SELF TAP/DRILL SCREW

(2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS. HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

FRAME ANCHOR REQUIREMENTS TABLE

FRAME/CLIP SCREWS

FRAME/CLIP TO OPENING

FÁSTENER TYPE

MIN. NO. 10 SMS OR WOOD

SCREW

MIN. NO. 10 GR. 5 SELF TAP/DRILL

(2) 1/4" CONCRETE SCREW

SCREW OR 1/4" BOLT (1)

